

‘A Live Exercise’ from *Hackers’ Wars*

by Joanna Bell, M.A. Near Eastern Languages and Cultures (Ph.D. Coursework Completed)

If theory can effectively do this today, it is because of our recent wars. Without the cautionary examples of the destructive power of war unleashed, theory would preach to deaf ears. No one would have believed possible what has now been experienced by all.

Carl von Clausewitz, *On War: Absolute War and Real War*

Held in October 2019, *Event 201* scenarioed the outbreak of a global pandemic in a roundtable exercise that preceded the COVID-19 pandemic by five months. Viewed by a panel of leading experts and bureaucrats, a hypothetical news segment used in *Event 201* reports on disinformation surrounding the hypothetical CAPS pandemic: **“This is a huge problem that’s going to keep us from ending the pandemic and might even lead to the fall of governments as we saw in the Arab Spring.”**¹

The connection made within a disaster scenario between the Arab Spring and the COVID-19 pandemic is threefold. The precursory comparison of a hypothetical pandemic to the Arab Spring should indicate that the COVID-19 pandemic was a premeditated tragedy. It should also indicate that the Arab Spring was similarly premeditated. Ultimately, the connection I make suggests that irregular warfare, especially electronic warfare, was used to effect both the Arab Spring and the COVID-19 pandemic.

In a later section *The Satellite Empire*, I describe the modern world of electronic warfare. In this discussion, it will suffice to introduce electronic weaponry as it was conceived. Popularly credited as the inventor of the first electronic weapon, Nikola Tesla (1856-1943) referred to his directed energy weapon prototype as a weapon to make war obsolete. Newspapers referred to his electrifying prototype as a “death beam”.² Reality has proven both conceptions accurate. In the manner I describe in this section, electronic warfare precludes war but not war-scale casualties.

The strategic consequence of war-precluding electronic warfare continues to evolve precipitously. This is occurring in the changing state of national security threats from the ‘leaderless terrorism’ or ‘leaderless revolution’ model to ‘actorless threats’. All are effected through electronic warfare, with actorless threats being the most resistant to negotiation.

Professor of public policy Morgan Bazilian and professor of international studies Cullen Hendrix identify in their article “An Age of Actorless Threats” the consequence of labeling the COVID-19 pandemic an actorless threat. Along with involving a greater number of government agencies in national security operations, policy changes also include domestic troop deployment and increases in the Defense R&D budget, specifically defense architecture, meaning the satellite triple canopy.

The article goes on to argue that domestic COVID-19 related deaths (200,000 Americans at the time of the article’s publication in October 2020) and the wildfires which “set ablaze half the Western United States” are the security failures which act as impetuses for the new policy changes. Unlike the September 11, 2001 terrorist attacks which “galvanized public opinion and legitimated exceptional, society-spanning policy responses” and “reshaped our entire intelligence

¹ <https://youtu.be/LBuP40H4Tko> “Segment 4 - Communications Discussion and Epilogue Video” @2:30

² <https://daily.jstor.org/nikola-tesla-death-ray-craze/>

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apparatus and foreign policy approaches”, the policy changes created by actorless threats will be implemented at a slower rate.

The article, for unsubstantiated reasons, designates foreign policy as the number one administrative field to respond to climate and disease disasters in the US homeland, likely linked to the authors’ subsequent point that the COVID-19 response has failed because of the “failure to identify a strategic goal.” Absence of the ability to strategically plan exemplifies the powerful chaotic components of actorless threats which turn actorless threats into a framework for terrorism. The claim in “An Age of Actorless Threats” that there is no government entity to negotiate with the threat, nor is there even a threat to negotiate with, represents an especially ideal framework in which terrorists can function with nearly zero risk or pushback.³

+ADD <https://www.justsecurity.org/70001/the-perils-of-hyping-pandemic-response-as-a-national-security-issue/>

While I argue in this section that the pandemic is deliberate nuclear-biological-chemical (NBC) warfare executed through the Strategic Defense Initiative weaponized satellite architecture, popularly referred to as Star Wars, it is worth noting that this defense architecture which I argue is perpetrating NBC warfare under the guise of a viral pandemic is also capable of altering weather patterns and the atmospheric climate on which the High-frequency Active Auroral Research Program (HAARP) is based. These form a second and third *actorless threat* perpetrated through the US intel-security space weaponry system.

+ADD In actuality being led by cartels, meaning corporate monopolies (*cartel: a group of similar independent companies who join together to control prices and limit competition.*)⁴

Air Force Major Zachary Martin writes on the actorless threat of chemical addiction in the Drug War in *The Hydra: The Strategic Paradox of Human Security in Mexico*:

The nature of the human security threat and the enemy’s behavior it drives represent a **fundamental departure from Clausewitz’s paradigm of war for two reasons**, the first being that **cartels do not seek to defeat the state**; they rely on the services and infrastructure ensured by the government’s survival. Cartel members still require access to food, running water, sanitation, residential property, roads, railways, and cell towers that the continued operation of the state provides. **The threat of violence and the actual violence employed against the state do not target its downfall but rather its acquiescence.** Clausewitz notes two objectives in war: ‘to overthrow the enemy—to render him politically helpless or militarily impotent, thus forcing him to sign whatever peace we please; or merely to occupy some of his frontier-districts so that we can annex them or use them for bargaining at the peace negotiation.’ Cartels do not pursue these objectives because they do not seek to bargain toward an end state of peace. Instead, they seek to operate in parallel with the state to pursue their illicit business. **Additionally, the lack of a political, economic, or social grievance to motivate the narcotics supply-demand dynamic means that the state lacks a coherent entity to negotiate with toward its own objectives.** Likewise, because individual cartels do

³ <https://www.justsecurity.org/72939/an-age-of-actorless-threats-re-thinking-national-security-in-light-of-covid-and-climate/>

⁴ <https://dictionary.cambridge.org/us/dictionary/english/cartel>

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not hold authority over this dynamic, **the state cannot bargain with them to end it. To do so would be akin to attempting negotiations with a force of nature.**⁵

The National Intelligence Council’s 2025 policy scenarios predicts failure to create a vaccine against a pandemic disease in which “tens to hundreds of millions of Americans within the US Homeland would become ill and deaths would mount into the tens of millions. Outside the US, critical infrastructure degradation and economic loss on a global scale would result as **approximately a third of the worldwide population became ill and hundreds of millions died...** Under such a scenario, **inadequate health-monitoring capability within the nation of origin probably would prevent early identification of the disease.** Slow public health response would delay the realization that a highly transmissible pathogen has emerged. **Weeks might pass before definitive laboratory results could be obtained** confirming the existence of a disease with pandemic potential. In the interim, **clusters of the disease would begin to appear in towns and cities within Southeast Asia.** Despite **limits imposed on international travel,** travelers with mild symptoms or who were asymptomatic could carry the disease to other continents. **Waves of new cases would occur every few months.** The **absence of an effective vaccine** and near universal lack of immunity would render populations vulnerable to infection.”⁶ ; “2025—What Kind of Future? The above trends suggest major discontinuities, shocks, and surprises, which we highlight throughout the text. **Examples include nuclear weapons use or a pandemic.** In some cases, the surprise element is only a matter of timing”⁷

Mike Pompeo: “There’s been some discussion about China – **what they knew and when they knew it.** We need to know immediately. The world is entitled to know. The Chinese government was the first to know. And that puts a special obligation, that that data gets to our scientists, our professionals. This is not about retribution. This matter’s going forward. **We’re in a live exercise here...** to get this right.”⁸

NIC *Global Trends 2025*: “For those terrorist groups active in 2025, the diffusion of technologies and scientific knowledge will place some of the world’s most dangerous capabilities within their reach. The globalization of biotechnology industries is spreading expertise and capabilities and increasing the accessibility of biological pathogens suitable for disruptive attacks. Radiological and chemical weapons may also be used by terrorists or insurgents seeking an advantage against opposing security or military forces and to create mass casualties. The proliferation of advanced tactical weapons will increase the potential that they will be used by terrorists. Improved anti-tank guided missiles and other manportable weapon systems, thermobaric and other advanced explosives, and the spread of cheap sensors and

⁵ Martin, Zachary. *The Hydra: the strategic paradox of human security in Mexico*. Wright Flyer Paper No. 78. Air University Press. 2020, p. 4.

⁶ National Intelligence Council. *Global Trends 2025: A Transformed World*. U.S. Government Printing Office. November 2008, p. 75.

⁷ National Intelligence Council. *Global Trends 2025: A Transformed World*. U.S. Government Printing Office. November 2008, p. xii.

⁸ Pompeo, Mike (Secretary of State). “User Clip: Mike Pompeo We’re in a live exercise here.” President Trump with Coronavirus Task Force Briefing. 20 March 2020. https://www.c-span.org/video/?c4875167/user-clip-mike-pompeo-live-exercise&fbclid=IwAR00kpFAOvV0AxCPUEEIkETSW3kuW_z3FYBp-royKtZ6MPT8h9vVa7hH4nk

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robotics that could be used to create more capable improvised explosive devices illustrate this danger. Some governments will likely respond to increasing terrorism and internal threats by expanding domestic security forces, surveillance capabilities, and the employment of special operations-type forces. Counterterrorism and counterinsurgency missions increasingly will involve urban operations as a result of greater urbanization.”⁹

In the March 2017 RAND Corporation’s podcast *The Serious Role of Wargaming at RAND*, David A. Shlapak, Senior International Research Analyst and Codirector of the RAND Center for Gaming, speculates on a pandemic scenario, saying:

[On] decisionmaking and planning. So, **it would be great if we could plan how to respond to the outbreak of an antibiotic resistant pathogen without actually having to have an outbreak of an antibiotic resistant pathogen.** Because that would be, as I understand it from my friends in the healthcare community, a really, really bad thing. [audience laughter] **So, we use a game.** We design games to help us work through, how would you respond? What are the interactions between the public health community and the political community? **How do political decisionmakers manage the risks associated with, say, shutting down the airports?** Right, with the economic consequences of shutting down the airports? Right. **Closing schools – that’s the first thing we do when there’s an epidemic threat on the horizon, because kids are little biological weapons, laboratories,** on the best days, let alone when there’s some super bug out there floating around. **But when you shut down schools, you don’t just shut down schools, you shut down parents, right? You shut down businesses. You start shutting down all sorts of things.** Huge decision! So, **you use a game to start playing out the consequences, and the interactions of all those consequences.** We did a game for our board of Institute of Civil Justice where they wanted to focus very narrowly on questions of legal liability. Let’s say a genetically engineered pathogen escapes containment and causes one of these outbreaks. Who is responsible? Who actually has legal liability for the consequences? **Is it the lab? Is it the government funder for the research that produced it?** We spent an entire day playing a game letting them look at different scenarios about how that might play out.¹⁰

Biden Administration Intel Chief appointee Avril Haines, current Deputy Director of the CIA, was the Intelligence “player” in *Event 201* roundtable. Haines is concurrently a Senior Fellow at the Johns Hopkins University Applied Physics Laboratory and is on the board of the Nuclear Threat Initiative’s Bio Advisory Group.¹¹ Haines is also known for her role in the Obama Administration’s target killing drone program as well as her refusal to take disciplinary action when it was revealed that the CIA had hacked the computers of the Senate Select Committee on Intelligence staff during their 2009-2014 investigation into the CIA’s detention and torture program which rendered the 6,000 page *Report on Torture*.¹²

⁹ National Intelligence Council. *Global Trends 2025: A Transformed World*. U.S. Government Printing Office. November 2008, p. 70.

¹⁰ <https://www.rand.org/multimedia/audio/2017/03/23/the-serious-role-of-gaming-at-RAND.html> @9:00-11:10

¹¹ Center for Health Security. *Event 201 Players: Avril Haines*. Center for Health Security webpage. Accessed 20 January 2021.

¹² Katkov, Mark. “Biden Pick For Intel Chief: ‘Biggest Challenge Is Building Trust And Confidence’”. *NPR*. 19 January 2021.

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[October 2019 *Event 201* pandemic tabletop exercise videos]

Segment 1¹³: @24:20 “GNN” news channel reports medical supplies hoarding (3M featured) ; @19:00 pandemic model likened to Spanish Flu of 1918 ; @48:00 lack of surveillance in underdeveloped nations mean they don’t know who is infected ; @35:40 pandemic-related predatory loans to Third World, IMF/World Banks ; @45:00 school closures as transmission loci ; @46:40 discrepancies in fatality rates ; @55:40 conspiracy theories released that governments and companies released the virus.

Segment 2¹⁴: @3:45 “it’s also leaders themselves...spreading misinformation”, ‘GNN’ states “good public health info accurate and truthful” ; @19:40 NIC representative Haines “flood telecoms with trusted sources”...(@20:30) “identifying foreign disinformation campaigns” ; @35:20 “disinformation censorship on healthcare became a political persecution tool...”

Segment 3¹⁵: @1:40 GNN report: Response to the CAPS pandemic is now the world’s most expensive international emergency ever

@2:00 GNN report - **Fake expert economist Dave Gamble, PhD**: “What exactly are the risks and benefits of slowing air travel, of staying home from work, closing schools, disrupting supply chains, interfering with our reliable channels of communication and news? Sure, some of these steps can help slow CAPS, but often only marginally and with serious costs. When this is all over some families, some cities will have suffered more from our interventions than from CAPS.” / **Fake Reporter**: “No question, there is a lot of suffering.”

@5:10 Dr. Eric Toner from panel: “Losses are greater in the wealthier countries despite having fewer cases... [Global per capita GDP] There could be an 11% decline in GDP at the one year mark into the pandemic, and a 25% fall at the two year mark, when after the full effects of the pandemic are felt.” ... @6:45 “The World Bank and IMF would not have enough money to get us out of this crisis.”

Minority deaths disproportionate

Segment 4¹⁶: @2:30 “We know **social media companies** are working around the clock to combat these disinformation campaigns, but the task of identifying every bad actor is immense. Experts agree that new **disinformation campaigns** are being generated everyday. **This is a huge problem that’s going to keep us from ending the pandemic, and might even lead to the fall of governments as we saw in the Arab Spring.** If the solution means controlling and reducing access to information, I think it’s the right choice.” ; Epilogue: @33:00 **65 million dead** ; @34:00 “**The global economy was in free fall. The GDP down 11%. Stock markets around the world plummeted between 20 and 40%... While nearly all businesses were affected, certain sectors were especially hard hit: travel, finance, service, manufacturing, healthcare, and insurance among them, with some major companies going bankrupt.**” ; @34:40 “The world saw **large scale protests and, in some places, riots.** People were angry about the loss of access to healthcare and medicine, as well as government’s inability to protect them from the disease. This led to **violent crackdowns in some countries and even marshal law.** Political upheaval became the rule across the globe **as the public lost trust** in their respective

¹³ <https://youtu.be/Vm1-DnxRiPM> “Segment 1 - Intro and Medical Countermeasures (MCM) Discussion”

¹⁴ <https://youtu.be/QkGNvWfICNM> “Segment 2 - Trade & Travel Discussion”

¹⁵ https://youtu.be/rWRmlumcN_s “Segment 3 - Finance Discussion”

¹⁶ <https://youtu.be/LBuP40H4Tko> “Segment 4 - Communications Discussion and Epilogue Video”

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administrations. **Several governments fell** while others were desperately striving to hold on to power. **This spurred further crackdowns. Attempts to control media messaging – originally only aimed at health-related misinformation - became used increasingly to quash political dissent.** Economists say the economic turmoil caused by such a pandemic will last for years, **perhaps a decade. The societal impacts – the loss of faith in government, the distrust of news, and the break down of social cohesion – could last even longer.** We have to ask: Did this need to be so bad? Are there things we could have done in the five to ten years leading up to the pandemic that would have lessened the catastrophic consequences? We believe the answer is yes.”

“Segment 5 - Hotwash and Conclusion” +ADD “wash-up” wargame term for post-game analysis (photocopies *Future of War* navy book, pg. ~60)

@8:32 Tim Evans, World Bank: “So I think in the spirit of accountability we should assess the effectiveness of this board. I’d like to say we take full responsibility for deaths – not reaching 100 million deaths or 200 million deaths. It was only 65 million so there was some effectiveness of the board.” [Laughter from panelists and audience].

@20:50 Stephen Redd, Military CDC: Motions with hands, visible blood on palm of hand, wearing bandage on hand in other segments.

@23:00 Moderator: “Do we need to find them [“those voices of trust”] now so that when the crisis hits those will be established as voices of trust?”¹⁷

+ADD Wargame roundtable notes from videos Clade X, Event 201

https://www.centerforhealthsecurity.org/our-work/events-archive/2005_atlantic_storm/index.html virus wargamed as bioterrorist attack

in Atlantic Storm 2005 & https://www.centerforhealthsecurity.org/our-work/events-archive/2001_dark-winter/index.html Dark Winter wargamed as covert bioattack in 2001, both *Dark Winter* and *Atlantic Storm* and

Clade X (2018) pandemic roundtable participants:

John Bellinger

Fmr. Legal Advisor to US State Department

Secretary of State

Rep. Susan Brooks (R-IN)

Member, House of Representatives

Tom Daschle

Fmr. Senate Majority Leader

Senate Majority Leader

Julie Gerberding

Fmr. Director, Centers for Disease Control and Prevention

Director, Centers for Disease Control and Prevention

Jamie Gorelick

Fmr. Deputy Attorney General

Attorney General

Margaret Hamburg

Fmr. Commissioner, Food and Drug Administration

Secretary, Health and Human Services

¹⁷ https://www.youtube.com/watch?v=0-_FAjNSd58 Event 201 Pandemic Exercise: Segment 5, Hotwash and Conclusion, Center for Health Security 4 November 2019

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Tara O'Toole

Fmr. Undersecretary, Department of Homeland Security

Secretary, Department of Homeland Security

Jeff Smith

Fmr. General Counsel, Central Intelligence Agency

Director, Central Intelligence Agency

Jim Talent

Fmr. Senator (R-MO)

Secretary, Department of Defense

Tom Inglesby, MD, director of the Center, will play the White House national security advisor.”¹⁸

Science fiction story published the Marines: “The Montgomery Crisis,” display and small arms technology advances, but the U.S. Navy has to make do with then-ancient vessels and planes, like Zumwalt-class destroyers, Ford-class carriers, and F-35B Lightning II Joint Strike Fighters. The military threats are still anti-access, area-denial, powerful ship-killing foreign-designed missiles in the hands of radical religious extremists with near-peer backing. **But it’s the impetus behind those attacks, the plague and the grain shortage, that provides the most direct shift: an America made hungry, through careful sabotage at the hands of just a few well-placed malcontents. The story ends with victory, but a temporary one:** the plague vector remains, and is beyond the problem-solving abilities of the Marines. Instead, grain shipments and free global trade provide the immediate salvation...”¹⁹

Colonel Guo Ji-wei, The People’s Liberation Army, China, is Director, Department of Medical Affairs and **Yang Xue-sen**, is a biotechnology lecturer. “Ultramicro, Nonlethal, and Reversible Looking Ahead to Military Biotechnology” in 2005: **“Directed-energy-induced mutation.** High-intensity ultraviolet rays and electromagnetic waves can induce genetic-locus cell mutation. If we determine the relationship between the specific frequency, wavelength, or power of the ray or wave and the specific gene or locus, we can cause injury by remote, radiation-induced, genetic function changes. Direct integration. University of Wisconsin scientists have made exogenous, naked DNA and injected it into veins for easy access into muscle cells for gene therapy. By combining this knowledge and particle-gun technology, we could create a microbullet out of a 1-μm tungsten or gold ion, on whose surface plasmid DNA or naked DNA could be precipitated, and deliver the bullet via a gunpowder explosion, electron transmission, or high-pressured gas to penetrate the body surface. **We could then release DNA molecules to integrate with the host’s cells through blood circulation and cause disease or injury by controlling genes.** Biological tag-tracing, electromagnetic targeting, and nanometer biological technologies can help build highly military-oriented biotechniques. While it is perhaps too early

¹⁸ Alexopoulos, Nick. “Players for Clade X pandemic tabletop exercise include current and former elected officials, former senior government leaders”. Johns Hopkins Bloomberg School of Public Health Center for Health Security webpage. 16 April 2018.

¹⁹ <https://news.usni.org/2017/10/17/marines-solicit-science-fiction-stories-imagine-future-conflicts>

to decide what form modern biotechnological weapons might take, one thing is sure: all such weapons require a military that focuses on information more than on mechanization... such weapons might finally change the methods of ‘physical annihilation’ or ‘destruction within the killing range’ which have characterized war since the invention of gunpowder... Specificity of wounding. Precision injury is an embodiment of specificity. HGP and proteomics have greatly enriched bioinformation. **If we acquire a target’s genome and proteome information, including those of ethnic groups or individuals, we could design a vulnerating agent that attacks only key enemies without doing any harm to ordinary people.** We could also confine the attack to a more precise level. Injuries might be limited to a specific gene sequence or a specific protein structure. **Through gene manipulation, we can attack or injure one or more key human physiological functions (the ability to learn, memorize, keep one’s balance, or perform fine motor activities and even act aggressively) without a threat to life.** Ultramicro damage. When attacking an enemy with biotechnological military weapons, we could choose targets from a nucleotide sequence or protein structure. We could cause physiological dysfunction by producing an ultramicro damaging effect to a gene’s or a protein’s structure and functioning. Precision injury and ultramicro damage are two vulnerating methods based on genomics and proteomics. Because they target the primary structure of the gene or protein, they are completely different from traditional weapons of war that directly damage tissues and organs. Crypticity. Although applications of military biotechnology are complicated, the finished products are convenient to carry, easy to use, and do not require large support systems. Detecting and predicting their use is difficult. **Only after obvious wounding occurs will enemies realize they are under attack. In this sense, using military biotechnology weapons is a good tactic.** Controllability and recoverability. Unlike weapons that use ammunition whose damaging effects can only be ascertained after shooting, we can test in a laboratory the degree of damage biotechnological weapons produce. **We can control the degree of injuries and damage produced and even provide an antidote or a cure (a vaccine, a countervulnerating agent, or a piece of bioinformation). Providing such an anodyne to our enemies would represent real ‘mercy.’**... Traditional biological weapons aim to produce mass destruction. They reduce the enemy’s fighting power by damaging a large number of human beings, livestock, crops, and even the ecological system. Biological weapons of mass destruction originated from the idea that the more they kill and the fiercer the disasters they produce, the better they are. Technologically, traditional biological weapons depend on microbiology, especially bacteriology, which uses destructive bacteria, viruses, and toxic living bodies obtained directly from the natural world. These weapons are subject to nature, are difficult to control, and have irreversible effects. **The use of such weapons is opposed by most countries in the world.... current military biotechnology possesses a quality of ‘mercy, and its action, purpose of study, and specifications are totally different from traditional biological weapons. Modern biotechnology will help rid the world of primitive forms of microorganisms, biological agents and toxins; offer an alternative to biological warfare; and, ultimately, help eliminate traditional biological weapons.’**²⁰ (76-78 pg)

²⁰ Ji-wei, Colonel Guo and Xue-sen Yang. “Ultramicro, Nonlethal, and Reversible Looking Ahead to Military Biotechnology”. *Military Review*. July-August 2005.

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The COVID-19 pandemic, as has been noted, has epidemiologically spread unlike most airborne infectious diseases, defying many experts’ model-based predictions. Symptomatically, it is consistent with high level exposure to electromagnetism.

[TOPIC – COVID-19 as ‘Havana Syndrome’ and Military Deception MILDEC]

+ADD **“The Pentagon has briefed top lawmakers on intelligence surrounding suspected directed-energy attacks against U.S. troops, and officials identified Russia as a likely culprit, according to two people with direct knowledge of the matter. The Defense Department had been investigating the incidents, including those **targeting its personnel around the world, since last year [2020]**, according to four former national security officials directly involved in the probe. Pentagon officials informed at least two key groups of lawmakers earlier this year, in written form and in-person, about the investigation. POLITICO spoke with congressional officials who were briefed on the suspected attacks as part of their oversight duties of the Pentagon. The briefings included information about injuries sustained by U.S. troops in Syria, the people said. **The investigation includes one incident in Syria in the fall of 2020 in which several troops developed flu-like symptoms,** two people familiar with the Pentagon probe said. After this article was published, **Gen. Frank McKenzie, head of U.S. Central Command,** told lawmakers during a Senate Armed Services Committee hearing that he has seen ‘no evidence’ of such attacks against U.S. troops in the Middle East. A Pentagon spokesperson declined further comment on the Pentagon’s interactions with Capitol Hill or any internal investigation. The incidents of suspected directed-energy attacks by Russia on Americans abroad became so concerning that the Pentagon’s office of special operations and low-intensity conflict began investigating last year, according to two former national security officials involved in the effort. It’s unclear exactly how many troops were injured, or the extent of their injuries. A spokesperson for the director of national intelligence declined to comment. **The investigation is part of a broader effort to look into directed-energy attacks on U.S. officials across multiple agencies in recent years.** Since late 2016, close to 50 officials have reported symptoms of a mysterious illness that became known as ‘Havana syndrome’ among U.S. diplomats posted in Cuba. Symptoms included acute ringing and pressure in the ears, as well as loss of hearing and balance, fatigue and residual headaches. Some victims have suffered long-term brain damage... A directed-energy attack uses highly concentrated electromagnetic energy, including high-powered radio frequency or microwave devices and particle beams, to harm a target. The attacks can take different forms, from jamming electronic equipment to causing pain or permanent injuries. **A report commissioned by the State Department and released in December pointed to ‘directed, pulsed radiofrequency energy’ as the most probable cause for the ‘Havana syndrome’ incidents**... The investigation evolved into a larger discussion involving the National Security Council, the CIA, State Department and Office of the Director of National Intelligence, said three former national security officials involved in the discussions... The congressional officials briefed on the incidents said the Pentagon believes that the nature of the directed-energy attacks is similar to those carried out against Americans in Cuba, but was hesitant to draw direct parallels... Jeffrey Lewis, a professor at the Middlebury Institute who focuses on technology and national security, said the topic can be troublesome from an intelligence standpoint... **‘Those people have been reporting all those symptoms for years and the question is, are they being targeted? Is this some eavesdropping equipment that’s having an effect on them?’** You just don’t know.’... **Phil Coyle, former director of the Office of****

Operational Test and Evaluation at the Pentagon, urged caution. ‘It seems far-fetched to me — harder to do by far than just killing American soldiers with bombs or bullets,’ Coyle said. **‘The advantage, of course, of some imaginary weapon is maybe there would be no attribution. Nobody would be able to tell, which I guess is the situation you’re describing in Syria. All we know is these soldiers got sick, and we don’t know whether it’s food poisoning or something else that made them sick, so we can’t blame the Russians. And that of course was part of the problem in ... Cuba.’**”²¹

“People with these symptoms may have COVID-19: **Fever or chills, Cough, Shortness of breath or difficulty breathing, Fatigue, Muscle or body aches, Headache,** [Symptoms added by CDC as of June 2021:] New loss of taste or smell, Sore throat, Congestion or runny nose, Nausea or vomiting, Diarrhea. This list does not include all possible symptoms. CDC will continue to update this list as we learn more about COVID-19.”²² ; “The fast-spreading delta Covid variant could have different symptoms, experts say”²³ *CNBC* 17 June 2021

[TOPIC – COVID-19 directed energy and loss of smell as MILDEC-approved tactics]

“Distorted, Bizarre Food Smells Haunt Covid Survivors”²⁴ *NY Times* 15 June 2021

Joint Forces Staff College *Military Deception*: “Technical Means: Those military material resources and their associated operating techniques used to convey or deny selected information to an adversary. As with any use of US military material resources, any use of technical means to achieve MILDEC must comply with domestic and international law. A variety of technical means include: **(a) Deliberate emission, alteration, absorption, or reflection of energy. (b) Emission or suppression of chemical or biological odors. (c) Multimedia (radio, television, sound broadcasting, computers, computer networks, smart phones, and personal digital assistants).**”²⁵

“Influential COVID-19 model uses flawed methods and shouldn’t guide U.S. policies, critics say”²⁶

“Surgisphere: governments and WHO changed Covid-19 policy based on suspect data from tiny US company”²⁷

²¹ <https://www.politico.com/news/2021/04/22/pentagon-russia-attacks-us-troops-484150>

²² <https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>

²³ <https://www.cnn.com/2021/06/17/covid-delta-variant-symptoms-spread-and-what-to-look-out-for.html>

²⁴ <https://www.nytimes.com/2021/06/15/health/covid-smells-food.html>

²⁵ Joint Forces Staff College. *Military Deception*. Joint Publication 3-13.4. 26 January 2012, p. I-8.

²⁶ Begley, Sharon. “Influential COVID-19 model uses flawed methods and shouldn’t guide U.S. policies, critics say”. *STAT*. 17 April 2020.

²⁷ Davey, Melissa, Stephanie Kirchgaessner and Sarah Boseley. “Surgisphere: governments and WHO changed Covid-19 policy based on suspect data from tiny US company”. *The Guardian*. 3 June 2020.

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“Study estimates US Covid-19 infections may be 4 times higher than reported”²⁸ based on “Estimation of US SARS-CoV-2 Infections, Symptomatic Infections, Hospitalizations, and Deaths Using Seroprevalence Surveys”: “**Findings:** In this cross-sectional study using data from public health surveillance of reported coronavirus disease 2019 cases and seroprevalence surveys, an estimated 46 910 006 SARS-CoV-2 infections, 28 122 752 symptomatic infections, 956 174 hospitalizations, and 304 915 deaths occurred in the US through November 15, 2020. **Meaning:** Findings of this study suggest that although more than 14% of the US population was infected with SARS-CoV-2 by mid-November, a substantial gap remains before herd immunity can be reached... **Conclusions:** In this cross-sectional study, estimates of underreporting multipliers were derived and combined with surveillance data to adjust reported surveillance data for underreporting. Results suggest that although more than 14% of the US population may have been infected with SARS-CoV-2 as of mid-November 2020, there remains a substantial gap between the estimated proportion of the population infected and the proportion infected that is required for herd immunity. Additional seroprevalence surveys are warranted to monitor the pandemic, including after the development of safe and efficacious vaccines.”²⁹

For lack of a coherent epidemiological model fitting the spread of COVID-19, researchers in mathematics and chemical engineering at the Rochester Institute of Technology published an article in *Physica D: Nonlinear Phenomena*, a physics journal, titled “Accurate closed-form solution of the SIR epidemic model”.³⁰ The researchers created a model for the spread of COVID-19 based on demonstrated solutions to problems in published research on quantum gravity, including Fourier solutions for localized oscillatory forcing/signaling problems of radar imaging, and mechanical engineering, including thermodynamics of boundary density fluid flow and equilibrium.

This is to say, interpreting prolonged microwave signals over territories and their visualizations as images on radar has proven predictive of the spread of the COVID-19 ‘virus’. As well, measuring the engineered flow of particles in fluid dispersed and how that fluid distributes over areas with structures has also proven more predictive of the spread of COVID-19. The caveat in this model lies in people’s movement traced as though they were dispersing particles. The model does not actually address particle dispersal, like might be expected with airborne disease.

regular epidemiological models which focus on viruses which spread via human-to-human contact transmission. In other words, COVID-19 is more likely contracted via long-term microwave radar imaging. Additionally, populations are better imagined as settling of fluids released into the open air over vast urban regions, rather than through human-to-human infection. The success of this model calls into question the validity of so-called ‘contact tracing’ surveillance being implemented to reduce COVID-19 transmission.

The COVID researchers claim that their “method was based on solutions they previously developed to very different problems in thermodynamics, fluid mechanics and predicting the

²⁸ https://www.cnn.com/world/live-news/coronavirus-pandemic-vaccine-updates-01-05-21/h_833be27384fd892bf390e72fe3f34b1e

²⁹

https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2774584?utm_source=For The Media&utm_medium=referral&utm_campaign=ftm_links&utm_term=010521

³⁰ Barlow, Nathaniel S. and Steven J. Weinstein. "Accurate Closed-Form Solution of the Sir Epidemic Model". *Physica D: Nonlinear Phenomena*. Vol. 408. 2020.

trajectories of light around black holes... Although the authors haven't previously worked in the field of epidemiology, their previous work translated seamlessly to this new field.”³¹

The model, for reasons unclear, treats ‘susceptible populations’ as a variable undefined from total population, and treats ‘susceptible populations’, ‘recovered populations’ and ‘infected populations’ analogically as flowing fluids of varying densities which obey the laws of thermodynamics, i.e. heat transfer, in their interactions. While one might expect a thermodynamic model of virology to treat the flow of infectious fluids emitted between populations, this is not the stated case. At face value, this model suggests a near-medieval understanding of fever contraction which could be caused by certain heat transfer rather than by a host of factors that would determine contraction of bacteria or viruses.

The relation of all of this to black holes and gravitational physics, other than the variable t =time, remains remarkably undefined. One possible interpretation agrees with COVID-19 being the effect of radiation. Irradiation causes the breaking apart of molecules at the atomic level, specifically electrons. Atoms react similarly around black holes, phenomena in outer space which are believed to tear apart all matter and light at the atomic level.

While there may be problems with the model, its successful prediction of COVID-19 spread through applying laws of thermodynamics and radar physics indicates that the ‘virus’ is spread via mechanisms outside of human-to-human contact transmission, as Chinese government officials have alleged.

Along with this more successful thermodynamic or astrophysics model for virus spread, environmental indicators have arisen which are associated with unusually high levels of tapping into the geomagnetic belts used for directed energy weaponization. In April 7, 2020, an atmospheric “record-size hole” above the Arctic formed two weeks after the so-called pandemic was declared. The previous occurrence of atmospheric holes forming above the Arctic was in the spring of 2011, coinciding with the Arab Spring movement.³² Further argument for the causal relation between so-called leaderless revolution, war and mass poisonings is made in the section Radio-logical Warfare.

It should also be noted that contact tracing surveillance involving counterintelligence training is the same “peace deal” the Taliban - not the Afghan National Government - received in February 2020, detailed in a secret accord with Washington which has been viewed only by select persons kept in an underground Capitol bunker.³³ [MOVE]

Scott Atlas, professor of neuroradiology, appointed White House adviser on pandemic: “Prior to joining the Hoover Institute at Stanford, Atlas was the chief of neuroradiology at the school's medical center from 1998 to 2012, according to his profile on Stanford's website.”³⁴ “Dr. Atlas is also the editor of the leading textbook in the field, Magnetic Resonance Imaging of the Brain and

³¹ Web Desk. “New mathematical method to help epidemiologists map spread of COVID-19”. *The Week*. 4 June 2020.

³² Harvey, Fiona. “Record-size hole opens in ozone layer above the Arctic”. *The Guardian*. 7 April 2020.

³³ <https://www.newsbreak.com/news/1523045371951/a-secret-accord-with-the-taliban-when-and-how-the-us-would-leave-afghanistan>

³⁴ Collman, Ashley. “Meet Trump's new coronavirus adviser Dr. Scott Atlas, a Stanford physician who frequently criticized lockdown measures and believes in the full reopening of schools”. *Business Insider*. 13 August 2020.

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Spine” and author of a 2012 publication in the *Journal of Radiology* on the effects of exposure to ionizing radiation.³⁵

“Managing the Risk From COVID-19 During a Return to On-Site University Research”³⁶ by the JASON group further supports the argument that COVID-19 is the result of cyber and biological warfare, specifically the group’s involvement in advising university reopening procedures. The JASONS, founded during the early Cold War to advise the government on the use of “electronic barriers” (acoustic and heat-detecting remote sensing partition technologies) in the Vietnam War, are an unlikely group to advise academic policy on influenza-style health measures. The JASONS are concerned almost exclusively with defense technologies including cyberwarfare, nuclear missiles, lasers, climate change, ELF radio transmissions, space science imaging, radiological detection, aircraft pollution, biological weapons defense, and directed energy weaponry.” The group’s special purpose for cyber defense planning begs the question why the JASONS would be especially fit to advise on the COVID response.^{37 38}

While the JASONS have published recently on AI health informatics, as recently as 2017 their research has specifically focused on diseases which can be caused by radiological exposure including heart conditions, retinopathy, and skin cancers. **The group’s research on health informatics are now measures proposed for use with COVID**, including contactless diagnostic imaging, making networked medical records interoperable, supporting corporate data-driven healthcare enterprises, capturing mobile device information for health application, crowdsourcing data collection for health applications, virtual health monitoring, capturing data on toxin exposure, and environmental remote sensing and imaging over different geographical areas. The JASONS themselves in 2017 described this confluence of R&D as “this seemingly perfect storm”.³⁹

By applying the exact health informatics measures proposed for experimentation two years earlier by the JASONS to a novel virus, which also mimics the effects of radiation exposure on humans *and* the climate, further supports the claim that this pandemic has been intelligently plotted for return benefit to R&D industries, and has been steered publicly (and surreptitiously) via the VNN effect.

The nature of the JASONS as an elite group of fulltime academics active in research and development, along with the focus of their 2020 publication stating that “JASON charged itself to assess risks and best practices for restarting university research programs,” further supports arguments made in this essay’s section **Recent Developments and Research and Development: that research and development industries fund themselves through a cycle of violence that begins with R&D followed by shocking developments publicized, resulting in more demand for R&D, all part of a mechanism to maintain relevancy and funding.** [FIND OTHER CITE]

The Army posture on its pandemic response is expressed on its website:

³⁵ Profiles. “Scott W. Atlas: Senior Fellow at the Hoover Institute”. *Stanford University webpage*. Accessed 13 August 2020.

³⁶ JASON. *Managing the Risk From COVID-19 During a Return to On-Site University Research*. JASON The MITRE Corporation. 10 July 2020.

³⁷ [https://en.wikipedia.org/wiki/JASON_\(advisory_group\)](https://en.wikipedia.org/wiki/JASON_(advisory_group))

³⁸ <http://large.stanford.edu/courses/2013/ph241/kallman2/>

³⁹ JASON. *Artificial Intelligence for Health and Health Care*. JASON The MITRE Corporation. December 2017, p. 9.

As part of the COVID-19 response, the U.S. Army Rapid Equipping Force, Program Executive Office Soldier and the C5ISR Center of U.S. Army Combat Capabilities Development Command led the initiative to use thermal-imaging devices to screen for potentially elevated body temperatures of personnel entering military facilities... ‘This is a different adversary we are combating and, as always, it is **our number-one priority to protect the force** and community to ensure our safety, resilience and readiness,’ Wilson said. ‘We are looking to the **thermal-imaging sensors as one of many methods to prevent the spread** and exposure of COVID-19.’⁴⁰

This exemplifies the US military’s neglect of military duties to protect the nation, situations in which a greater emphasis is placed on self-defense of the military industrial complex while endangering civilian populations in order to provide greater (maybe unnecessary) protection for military personnel.

Specifically, the military neglects full-scale conflict risks inherent in militarizing civilian areas “such as Metro entry points” as the article mentions, positioning troops in civilian centers, and the proliferation of militarized technologies to civilian populations. The actions taken by the US military during COVID-19 to protect military interests and personnel increases the incident of conflict through increased troop presence and accelerated technologies scaling. The argument that potential human adversaries may be deterred by US troop presence and technology scaling cannot apply to a virus as adversary.

Government responses have consistently framed the pandemic as a “war”. from Channel 4 News “Coronavirus ‘**worse than a bomb**’ on Italy, says doctor coordinating” and “Coronavirus expert: ‘**War is an appropriate analogy/Virus expert: This is war**’”. ; “‘I know what I am asking of you is unprecedented, but circumstances demand it. **We are at war,**’ **Macron** said... All travel between European countries will be suspended.”⁴¹

+ADD On the website of the Department of Defense Non-Lethal Weapons Program’s Joint Intermediate Force Capabilities Office, a Captain George Galdorosi (Ret.) published an article on April 1, 2019 entitled “Unleash Directed-Energy Weapons” which calls for the increased use of electronic weaponry⁴² [ADD quotes printed article] ;

Russia’s vaccine called Sputnik V, after the first orbiting satellite *Sputnik*, purported to be the first vaccine to the Coronavirus-19.⁴³

+ADD “**This is Iran’s Chrenobyl**”⁴⁴

Years earlier in the spring of 2009, Center for Disease Control Director Tom Frieden briefed former President Obama on the so-called Swine Flu epidemic in similar war lexicon:

He [Obama] asked a series of questions about H1N1, which was just kind of emerging and it was kind of like **a fog of war reality** and he said, ‘This isn’t going to kill a million people, is it doctor?’ And I answered, ‘No, Mr. President.’⁴⁵ [Clausewitz ‘fog of war’ reference]

⁴⁰ https://www.army.mil/article/235191/army_ref_deploys_thermal_imaging_sensors

⁴¹ <http://www.ecns.cn/news/politics/2020-03-17/detail-izunmih1236773.shtml>

⁴² <https://jnlwp.defense.gov/Press-Room/In-The-News/Article/1809399/unleash-directed-energy-weapons/>

⁴³ <https://sputnikvaccine.com>

⁴⁴ <https://www.cnn.com/2020/03/18/politics/state-department-coronavirus-iran-outreach/index.html>

⁴⁵ NBC Nightly News Broadcast (Full) - March 13th, 2020 | NBC Nightly News
<https://www.youtube.com/watch?v=WuyFniRMxY>

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+ADD “Dr. Peter Hotez told Congress that coronavirus is becoming an ‘angel of death’ for the elderly.”⁴⁶ ; “It is perhaps the most darkly iconic image of the Holocaust. A transport of Jewish prisoners arrives at Auschwitz and is ordered to divide by gender and form ranks of five. Amid the prisoners stands a man in a white coat, directing victims either to forced labor or to the gas chamber. This physician is **Josef Mengele, nicknamed the ‘Angel of Death’** for his cold demeanor on the ramp. Since his disappearance during the Cold War, **he has come to personify the ‘Nazi doctor,’ a manifestation of evil that emerged as the surviving symbol of Nazi genocide.**”⁴⁷

[TOPIC – COVID-19 as genocide – *Imposing measures intended to prevent births within the group*]

The Atlantic staff writer Joe Pinsker notes similar effects on reproduction that the COVID-19 pandemic has had in the US in less than nine months:

These missing births, which could end up numbering in the hundreds of thousands in the U.S., will make up what’s been called the ‘COVID baby bust.’ One would think that a baby bust would take at least nine months to reveal itself, but traces of one seem to have already appeared. As Philip Cohen, a sociologist at the University of Maryland, has noted, **births started to decline in California and Florida during the summer. That’d be too soon, though, to reflect a drop in conceptions during the pandemic, or a rise in abortions or miscarriages (which tend to happen earlier on in pregnancy).** Three possible explanations, Cohen told me, are errors or lags in states’ data on births, large numbers of pregnant people moving during the pandemic and giving birth in another state, or a large, unexpected drop-off in births that was already going to happen regardless of the pandemic. The first is probably incorrect—California’s public-health department told me that it wasn’t aware of any delays in reporting data (and Florida’s didn’t respond). The second is possible, but a little hard to believe. Cohen thinks the third is likeliest. ‘It might actually be that we were already heading for a record drop in births this year,’ he said. **‘If that’s the case, then birth rates in 2021 are probably going to be even more shockingly low.’ ...** The resulting decline in births, whenever it kicks in, could be quite large. In June, the economists Melissa Kearney and Phillip Levine projected **that 300,000 to 500,000 fewer babies might be born in 2021 than there would have been otherwise.** ‘We see no reason to think that our estimate was too large at this point,’ Kearney told me five months after the analysis was published. ‘In fact, **given the ongoing stress for current parents associated with school closures, the effect might even be larger than what we predicted.**’ Kearney and Levine’s estimate is based in part on the declines in birth rates that occurred as a result of past crises, such as the 1918–19 influenza pandemic and, more recently, the Great Recession. But as the two economists note, the coronavirus pandemic is a departure from historical precedents. The influenza pandemic wasn’t an economic crisis and the Great Recession wasn’t a public-health crisis, so it might be difficult to accurately predict the effects of a disaster that mixes elements of both... **It’s not just that fewer babies will be born—it’s also that different babies will likely be born, to different parents.** As I wrote in July, **white parents and parents with more resources might be better able** to go through with

⁴⁶ <https://www.cnn.com/videos/politics/2020/03/06/dr-peter-hotez-coronavirus-angel-of-death-sot-newday-vpx.cnn>

⁴⁷ <https://blogs.sciencemag.org/books/2020/01/23/mengele/>

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their pre-pandemic childbirth plans **than parents of color and parents with fewer resources**, such as those who have lost earnings or jobs during the pandemic.⁴⁸ [REPEATED]

+ADD RAND Corporation accuses the nation state for “vaccine nationalism”, spread of “virus”, games the global effects of vaccine absence or vaccine misdistribution:
“In this study [*COVID-19 and the Cost of Vaccine Nationalism* (2020)], we examine some of the negative consequences that vaccine nationalism could have in terms of how well we manage the pandemic in the future once a vaccine has been developed. **Another objective is to understand the potential economic implications that could arise if countries follow a nationalistic behaviour with regard to the development, manufacturing and distribution of future COVID-19 vaccines.** To this end, we use a macroeconomic model where all countries in the world are interlinked with each other through trade in goods and services as well as investment. **The model allows us to put the world economy into a laboratory and run different ‘what-if’ experiments, in order to examine what would happen to global economic output if no vaccine was developed or if only a few countries or regions managed to immunise their own populations.**⁴⁹

“Why a **vaccine** for coronavirus will take longer to develop than you might think” *USA TODAY*⁵⁰ ; <https://www.youtube.com/watch?v=ek3T8xiu1Fw> “The Race To Develop A Coronavirus Vaccine” *CNBC News* 14 March 2020 [relate to **R&D** – ‘chaos’, ‘**financial markets**’, ‘freezing supply chains’, ‘competition for developing vaccines’]⁵¹

+ADD Michael Brendan Dougherty (*The Week* correspondent) on Twitter via MSNBC News 2/28/2020: “I can’t emphasize enough that he [Trump] **can’t stop the sell off without a competent public health response.**” And “The more they treat this as a market and re-election problem, the worse the market and re-election problems can become.”

+ADD “**No final conclusion on the natural host of the COVID-19 virus has been made yet so far**, which is key to epidemic prevention as **an unclear origin** means there is a potential risk of animal-to-human infection, a top Wuhan pathogen biologist told the Global Times in an exclusive interview... The poor conditions at the seafood market made it an ideal place for the virus to reproduce and spread. But currently, we can only say that ‘Huanan seafood market is likely to be one of the places of the origin of the epidemic,’ Yang said. Regarding the ‘biochemical war’ conspiracy theory circulated online, Yang explained that **Wuhan held the Military World Games in October last year [2019]** and the US delegation stayed in a hotel not far from the seafood market. **Wuhan discovered cases of coronavirus infection later in December.** ‘This is why some people have speculated that **the outbreak is a biochemical war**

⁴⁸ Pinsker, Joe. “Here Come the COVID-19 Baby Bust”. *The Atlantic*. 24 November 2020.

⁴⁹ Hafner, Marco, Erez Yerushalmi, Clement Fays, Eliane Dufresne, and Christian Van Stolk, *COVID-19 and the cost of vaccine nationalism*. The RAND Corporation. 2020, p. iii.

⁵⁰ <https://www.youtube.com/watch?v=hO-UiPoi3iI> “Why a vaccine for coronavirus will take longer to develop than you might think” *USA TODAY* 12 March 2020

⁵¹ <https://www.youtube.com/watch?v=ek3T8xiu1Fw> “The Race To Develop A Coronavirus Vaccine” *CNBC News* 14 March 2020

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conspiracy launched by the US against China,’ Yang said.”⁵² ; “Chinese foreign ministry spokesman Zhao Lijian took to Twitter on Friday to double down on an unproven claim that the US military brought the new coronavirus to the central city of Wuhan, where the outbreak began... **The allegation was apparently linked to the US Army’s participation in the international Military World Games held in Wuhan in October**, which drew competitors from more than 100 countries... It comes as senior US officials including President Donald Trump have sought to describe it as a ‘foreign virus’, with US Secretary of State Mike Pompeo and Republican leaders going further to label it the “Wuhan virus” or “Chinese coronavirus”,”⁵³ and also “a live exercise” about which China withheld information from the US.

Final argument that COVID-19 is radiological warfare rather than biochemical attack or viral phenomenon: “‘The Psychology of Biological Warfare’... the primary **reason for the decline of biological warfare** is that it has become too easy to start and too difficult to stop. **Germs and viruses are not as disciplined as soldiers** and will attack any vulnerable victim they can reach.”⁵⁴

The responses to the 2020 COVID-19 pandemic have been draconian, to say the least. Associate Supreme Court Justice Samuel Alito spoke on what the American Bar Association, in relation to Homeland Security provisional governance, has described as “something more than the exercise of executive power”:

The pandemic has resulted in previously unimaginable restrictions on individual liberty. I’m not saying anything about the legality of COVID restrictions. Nor am I saying anything about whether any of these restrictions represent good public policy. I’m a judge, not a policymaker... I think it is an indisputable statement of fact, **we have never before seen restrictions as severe, extensive and prolonged as those experienced**, for most of 2020. Think of all the live events that would **otherwise be protected by the right to freedom of speech**, live speeches, conferences, lectures, **meetings**, think of worship services, churches closed on Easter Sunday, synagogues closed for Passover on Yom Kippur War. Think about access to the courts, or the constitutional right to a speedy trial. **Trials in federal courts have virtually disappeared** in many places. One of these is **the dominance of lawmaking by executive Fiat rather than legislation**. The vision of early 20th century progressives and the new dealers of the 1930s was the **policymaking would shift from narrow minded elected legislators, to an elite group of appointed experts in a word, the policymaking would become more scientific. That dream has been realized to a large extent...** And what have we seen in the pandemic **sweeping restrictions imposed for the most part, under statutes that confer enormous executive discretion...** Under that law, **if the governor finds that there is, quote, a natural, technological, or manmade emergency, or disaster of major proportions, the governor can perform and exercise such functions,** powers and duties as are necessary to promote and secure the safety and protection of the civilian population. To say that this provision confers broad discretion would be an understatement... laws giving an official so much discretion can of course, be abused. And

⁵² GT Staff Reporters. “Wuhan pathogen biologist addresses six conundrums about deadly novel coronavirus”. *Global Times*. 16 February 2020.

⁵³ Zheng, Sarah. “Chinese foreign ministry spokesman tweets claim US military brought coronavirus to Wuhan”. *South China Morning Post*. 13 March 2020.

⁵⁴ Dunnigan, James F. and Albert A. Nofi. *Dirty Little Secrets: Military Information You’re Not Supposed to Know*. William Morrow and Company, Inc. 1990, p. 254.

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whatever one may think about the COVID restrictions, we surely don't want them to become a recurring feature after the pandemic has passed. **All sorts of things can be called an emergency or disaster of major proportions. Simply slapping on that label cannot provide the ground for abrogating our most fundamental rights...** it does not mean that whenever there is an emergency, executive officials have unlimited unreviewable discretion.⁵⁵ [+ADD MORE...]

In *A Legal Guide to Homeland Security and Emergency Management for State and Local Governments*, Ernest B. Abbott, Otto J. Hetzel, and the American Bar Association describe:

+ADD “The Homeland Security Act of 2002 (HAS) includes ‘emergency medical and related personnel, agencies, and authorities’ in its definition of ‘emergency response provider.’ On February 28, 2003, President Bush released **Homeland Security Presidential Directive 5** (HSPD 5)... The NPR [National Response Plan] was adopted in November 2004. The NRP includes in its first responder definition ‘public health, clinical care, and other skilled support personnel (such as equipment operators) who provide immediate support services during prevention, response, and recovery operations... **Initial actions by responders may include surveillance, testing processes, immunizations, prophylaxis, and isolation or quarantine for biological threats...** NIMS [National Incident Management System] outlines the NIC’s [NIMS Integration Center] in very approximate terms. A variety of entities, including local, state, tribal, federal, private sector, and professional organizations may suggest changes in NIMS standards and other corrective actions. The **secretary of DHS** [Department of Homeland Security], however, **retains ultimate authority** for alteration of NIMS standards. In other words, **other affected entities** may put forward modifications, but their **input is advisory only**. ”⁵⁶

+ADD “NFPA 1600 [National Fire Protection Association’s Standard on Disaster/Emergency Management and Business Continuity Programs, proposed by the National Commission on Terrorist Attacks Upon the United States (a.k.a. 9/11 Commission)] recommends that financial institutions and insurers consider compliance when evaluating creditworthiness and insurability. For those enterprises, **compliance will result in better protection of their own assets**. Therefore, they will likely adopt the proposal. The result would be that businesses of individuals not in compliance could find themselves facing significant increases in the costs of borrowing and insurance. For the health care industry, the cost and availability of insurance is already creating national concern. **Similarly, this capital-intensive business cannot function without the availability of credit. In this manner, the federal government has created a system that relies on business to encourage obedience with the standard.** ”⁵⁷

“MSEHPA comes down strongly on the side of public health regulation, granting broad powers to states. **State adopting MSEHPA provisions have given their governors broad powers to declare and enforce public health emergencies.** MSEHPA also would allow adopting states to **seize medical supplies and drugs, regardless of ownership**, during a declared public health

⁵⁵ Alito, Associate Supreme Court Justice Samuel, ed. Josh Blackman. “Video and Transcript of Justice Alito's Keynote Address to the Federalist Society”. *Reason*. 12 November 2020.

⁵⁶ Abbott, Ernest B. and Otto J. Hetzel, eds. *A Legal Guide to Homeland Security and Emergency Management for State and Local Governments*. American Bar Association. 2005, p. 60-61.

⁵⁷ Abbott, Ernest B. and Otto J. Hetzel, eds. *A Legal Guide to Homeland Security and Emergency Management for State and Local Governments*. American Bar Association. 2005, p. 62.

emergency. Authorities also could **take possession of, utilize, and if needed, destroy property.**⁵⁸

“In the United States, it has **never been quite true that** the measures needed to meet **emergencies are outside the strictures of the law; it is more accurate to say that, in the past,** the law and its **normal processes have been too slow to keep up with the pace of emergencies.** This is probably even more accurate given the potential of new threats of terrorist acts and other situations that have not been encountered previously. The ability of lawyers to function in such pressure situations is changing **with the development of ever-faster microprocessors.** This **evolution of information and its processing,** in less than a generation, has vastly improved the lawyer’s ability to function in emergencies... as in many states, the power of the state to act in emergencies is vested in **the governor as its chief executive authority.** The governor is the ‘commander-in-chief of all military forces of the state not in active service of the United States...[and] the chief administrative officer of the state responsible for the planning and budgeting for the state.’ The state constitution further provides that the governor ‘**shall have power to call out the militia to preserve the public peace, execute the laws of the state, suppress insurrection, or repel invasion.**’... The sweeping delegation of authority from the governor to the state coordinating officer relates to this in several ways. First, the delegation **concentrates formidable powers into the hands of the state coordinating officer.** Second, these powers are **not the exercise of executive powers only.** While countenanced by authorizing legislation or based on constitutional powers relating to emergencies, the exercise of such authority **may be used to countermand,** at least for a time, other **laws** adopted by the legislature. **Exercising that emergency authority intrudes upon the legislative function.** This is something more than the exercise of executive power. Third, as a practical matter, the state coordinating officer is often too preoccupied with operation duties to select *ad interim* statewide policies from the wide array of options available, for better or worse. This may include such quasi-legislative determinations as choosing which features of the statute or rule should be suspended, for how many days, and for which cities or counties. Often, these decisions are left to counsel. Therefore, **counsel must take on the added role of policymaker...** In such circumstances, lawyers should understand that they are assuming a multiple role that may compromise their independent professional judgment, or pose yet other ethical issues... On the one hand, counsel must frame the orders to ensure that agencies or other parties are relieved of literal compliance with a statute or rule whose requirements can no longer be met, or circumstances arise where adherence to those requirements cannot be justified in the face of an emergency. On the other hand, an important role and obligation of counsel is to limit the scope and duration of the order, so that it is no broader than necessary to achieve the intended purpose. **By declaring a state of emergency, the governor has not only called up formidable powers of that office to countermand what the legislature has done, but has in turn delegated that power to the state coordinating officer, who has not been elected by anyone.** It therefore falls to counsel to be aware of the need to strike the appropriate balance between what is needed to meet the disaster and the public interest in restoring the law to its *status quo ante* once the need has passed. This is not the only variable in the equation. The interest of **various political constituencies do not go into hibernation when disaster strikes. Indeed, some of them see the disaster as a window of opportunity to achieve ends the law denies them in ordinary**

⁵⁸ Abbott, Ernest B. and Otto J. Hetzel, eds. *A Legal Guide to Homeland Security and Emergency Management for State and Local Governments*. American Bar Association. 2005, p. 64.

times. Lawyers preparing for a role in emergency management must be prepared to assume their roles before an emergency exists, and they need to be familiar with the statutory and regulatory maze applicable to situations where they will be asked to make adjustments to existing policies when the emergency arises. **Undertaking this role effectively would not have been possible a generation ago, but the current texts of relevant statutes, rules, and cases are now only keystrokes away.**⁵⁹

From *Preparing for a Pandemic Influenza: A Primer for Governors and Senior State Officials* (2006) by National Governors Association Center for Best Practices: “Pandemic preparedness involves more than **stockpiling pharmaceuticals** and planning for **surges of patients at hospitals**. A severe pandemic will affect all sectors of society: **high rates of worker absenteeism** could **affect the operations of water treatment facilities and power plants**; efforts to slow or stop the spread of the disease could **limit the availability of food, cause schools to be closed** for significant periods of time, and **create economic hardships for state and local governments, business owners, and individuals**; and government efforts to manage **the public’s response could be complicated by the myriad sources of information—including the Internet**—on which people rely for guidance.”(p. ii) ... “Once a pandemic happens, we will divide forever the progress of our nation as pre-pandemic and post-pandemic.” When a pandemic occurs, the impact of the disease will join the lexicon of nation-changing incidents on the scale of 9-11 and the 2005 Hurricane Season. In every state, governors and senior officials will be at the forefront... An episode of pandemic influenza is the viral equivalent of a perfect storm. Three essential conditions must be met for an outbreak to begin: **A new flu virus must emerge from the animal reservoirs** that have produced and harbored such viruses—**one that has never infected human beings and therefore one for which no person has developed antibodies.** • **The virus has to make humans sick (most do not).; It must be able to spread efficiently, through coughing, sneezing, or a handshake.**” (p. iv)⁶⁰ [+ADD more]

<http://www.centerforhealthsecurity.org/event201/about> *Event 201* held NY,NY October 18, 2019 by Gates Foundation, World Economic Forum and Johns Hopkins;

<http://www.centerforhealthsecurity.org/event201/scenario.html>: “Event 201 simulates an outbreak of a novel zoonotic coronavirus transmitted from bats to pigs to people that eventually becomes efficiently transmissible from person to person, leading to a severe pandemic. The pathogen and the disease it causes are modeled largely on SARS, but it is more transmissible in the community setting by people with mild symptoms. The disease starts in pig farms in Brazil, quietly and slowly at first, but then it starts to spread more rapidly in healthcare settings. When it starts to spread efficiently from person to person in the low-income, densely packed neighborhoods of some of the megacities in South America, the epidemic explodes. It is first exported by air travel to Portugal, the United States, and China and then to many other countries. Although at first some countries are able to control it, it continues to spread and be reintroduced, and eventually no country can maintain control. There is no possibility of a vaccine being available in the first year. There is a fictional antiviral drug that can help the sick but not significantly limit spread of the disease. Since the whole human population is susceptible, during the initial months of the pandemic, the cumulative number of cases increases exponentially, doubling every week. And as the cases and deaths

⁵⁹ Abbott, Ernest B. and Otto J. Hetzel, eds. *A Legal Guide to Homeland Security and Emergency Management for State and Local Governments*. American Bar Association. 2005, p. 139, 140, 145-146.

⁶⁰ <https://www.nga.org/wp-content/uploads/2020/02/Pandemic-Influenza-Primer.pdf>

accumulate, the economic and societal consequences become increasingly severe. The scenario ends at the 18-month point, with 65 million deaths. The pandemic is beginning to slow due to the decreasing number of susceptible people. The pandemic will continue at some rate until there is an effective vaccine or until 80-90% of the global population has been exposed. From that point on, it is likely to be an endemic childhood disease.”⁶¹ ; Big tech involvement “Steve Wozniak [Apple Co-founder] Checking out Janet’s bad cough. Started Jan. 4. We had just returned from China and may have both been patient zero in U.S. (@ West Coast Sports Institute in Santa Clara, CA)”⁶²

[TOPIC – pandemic response surveillance/cyber reliance will lead to cyberwarfare]

“[CDC Director] Dr. Anthony **Fauci said in June 2019 that his nightmare public-health scenario** was a **‘respiratory illness that easily spreads and has a high degree of morbidity and some degree of mortality.’**... **‘I’m so sorry that I was so prescient** when we had our last interview, Steve. I really am very sorry about that,’ Fauci said during this year’s edition of The Hill’s healthcare summit on Thursday. ‘When we had our conversation last year, I said this is what I would be most worried about. I’m so sorry that it occurred, and occurred so quickly after that interview... Fauci is not the only one who’s been raising this kind of alarm. Bill Gates has similarly said that the world needs to prepare for pandemic disease outbreaks in the same serious way **as armies prepare for war**’... ‘Even as we’re getting through this, **and there’ll be many, many lessons learned**, we’ve got to for the future, **make sure that we don’t lose this corporate memory** of what we’re going through because we need, obviously, to be better prepared... You don’t want to frighten society and say, **‘At any given moment, something is going to come in and destroy society’** Because when you hear that over and over again ... people get inured to that, and they say, ‘Well, you’re just trying to frighten us,’ **Fauci said last year [2019]**. ‘The way you prepare for an outbreak is to preemptively put in place the scientific and public-health capabilities to respond. Don’t try to guess what the next outbreak is because you’re **almost always gonna guess wrong**. Try to put a fundamental system in place of **surveillance**.’”⁶³

“In 2009, **digital surveillance grew into ‘cyberwarfare’** after the formation of the U.S. Cyber Command (CYBERCOM), with headquarters at Fort Meade and a cyberwarfare center at Lackland Air Base staffed by seven thousand air force employees. Two years later the Pentagon declared cyberspace an ‘operational domain’—like air, land, or sea—and moved beyond defense of the military’s seven million computers to train its cyberwarriors for offense. While developing a formidable cyberwarfare capacity, **Washington has been cautious in its deployment to avoid creating precedents for attacks from Russia** (which crippled Estonia’s computers in 2007 and Georgia’s in 2008) **or China** (which repeatedly hacked Pentagon servers since 1999). Thus, the U.S. used computer viruses with devastating effect against Iran’s nuclear facilities from 2006 to 2010 but opted for conventional strikes against Libya’s air defenses in 2011. Overseas, **the pressure of pacifying foreign societies has again produced innovation in the U.S. information infrastructure**. The occupation of Iraq from 2003 to 2011 served as a crucible of counterinsurgency, creating **a new fusion of biometric surveillance and digital warfare**.

⁶¹ “The Event 201 scenario”. <http://www.centerforhealthsecurity.org/event201/scenario.html>

⁶² <https://twitter.com/stevewoz/status/1234575727678435328>

⁶³ Brueck, Hilary. “Dr. Fauci said he’s ‘so sorry’ the worst-nightmare pandemic scenario he outlined a year ago has become reality”. *Business Insider*. 9 July 2020.

Advanced biometrics first appeared in 2004 during the aftermath of the bitter **battle for Falluja when Marines stopped the 250,000 returning residents at desert checkpoints for fingerprinting and iris scans.** By mid-2008, **the U.S. Army was checking the identities of Baghdad’s population via satellite link to a biometric database** in West Virginia with a million Iraqi fingerprints and retinal scans on file. Starting in 2010, the Pentagon deployed **an upgraded identification system in Afghanistan, allowing U.S. patrols to scan Afghani eyes into the Biometric Automated Toolset (BAT)**—a laptop computer equipped with ‘separate plug-in units that record mug shots, fingerprints and retinal characteristics’ for **instantaneous satellite transmission.**”⁶⁴

“Through prototype testing and war-gaming, the Pentagon was developing a triple-canopy aerospace apparatus for global force projection that would, within a decade, be integrated into a multi-domain information system with robotic controls. After a decade of ground warfare in Afghanistan and Iraq, the Obama administration announced, in early 2012, a leaner defense strategy with a 14 percent cut in infantry, **a marked shift from the Middle East to check ‘the growth of China’s military power,’ and an increased emphasis on space and cyberspace...** To prepare for these challenges, the air force has held periodic combat simulations, such as the Future Capabilities Game, to gain ‘a better understanding of how air, space and cyberspace overlap in warfare.’ Although the results remain classified, we can infer, from the specifications for its components, that **by 2020 the Pentagon will deploy a three-tiered space shield to envelope the earth from stratosphere to exosphere...** Ultimately, the impact of this third **technological regime** will be shaped by the integration of this aerospace array into a robotic command apparatus that will coordinate operations across all combat domains—space, cyberspace, sky, sea, and earth. To defend against asymmetric terror strikes, moreover, **civil defense and cyberwarfare will incorporate biometric identification and electronic surveillance across the electromagnetic spectrum.** To control this complexly integrated system, cybernetics and robotics will necessarily play a significant role in both vigilance and actual combat. Looking forward into the future, **the core of this new technology will be operational within a decade to create the infrastructure for this third U.S. information regime by 2020, about the same time that China will be ready to contest American dominion over space and cyberspace, thereby creating new frontiers for interstate conflict...** Yet even these advances are but intimations of a third U.S. information revolution brewing within the Pentagon, which seeks to build a network of aerospace robotics, advanced cyberwarfare, and pervasive biometrics to envelop the earth in an electronic grid—allowing elimination of entire enemy battlefield formations through **‘networkcentric warfare’** or incineration of a single insurgent with a drone-fired missile... With an agile force directed via a robotic information infrastructure, the United States could, in principle, parlay its military power into a second American century. If this interpretation is correct, then continuing technological advances could possibly exempt Washington from past patterns of imperial decline, creating something akin to an endless American empire... With America’s education system in decline, its science and technology will, as discussed in this volume’s introduction, lose its competitive edge within a generation, eventually equalizing the competition for control over space and cyberspace... If this interpretation obtains, then Washington’s reliance on technological solutions

⁶⁴ McCoy, Alfred. “Imperial Illusions: Information Infrastructure and the Future of U.S. Global Power”. *Endless Empire: Spain’s Retreat, Europe’s Eclipse, America’s Decline*. The University of Wisconsin Press. 2012, p. 374.

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might someday incline it toward a devastating defeat, a succession of reverses, or a slow erosion of power through future military misadventures... There is an obvious ambiguity to this predicted outcome. Only the future can tell whether Washington’s bid to extend its global dominion through technological innovation will fare any better than the Third Reich’s defense of its continental empire with wonder weapons. Whether we are witnessing the triumph of the machine or the collapse of the system, this U.S. information infrastructure, now reaching rapidly into space and cyberspace, will remain a key factor in Washington’s future as a global power.”⁶⁵

⁶⁵ McCoy, Alfred. “Imperial Illusions: Information Infrastructure and the Future of U.S. Global Power”. *Endless Empire: Spain’s Retreat, Europe’s Eclipse, America’s Decline*. The University of Wisconsin Press. 2012, p. 378, 383-386.